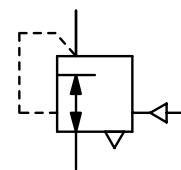


|                          |                                                                                                                                                                                                                                                    |  |  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Description</b>       | The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. The pilot pressure has no constant bleed and shows the same function as a spring in a common regulator: generating counter pressure on the diaphragm. |  |  |
| <b>Media</b>             | compressed air or non-corrosive gases                                                                                                                                                                                                              |  |  |
| <b>Supply pressure</b>   | max. 17 bar                                                                                                                                                                                                                                        |  |  |
| <b>Pilot pressure</b>    | max. 10 bar at 1:1 ratio, 5 bar at 1:2, 3.3 bar at 1:3, 2.5 bar at 1:4, 1.7 bar at 1:6                                                                                                                                                             |  |  |
| <b>Accuracy</b>          | at supply pressure variation of 7 bar: < 7 mbar pressure deviation                                                                                                                                                                                 |  |  |
| <b>Air consumption</b>   | max. 3 l/min, subject to outlet pressure                                                                                                                                                                                                           |  |  |
| <b>Relief capacity</b>   | 310 l/min at 1.5 bar outlet and 0.35 bar overpressure above setpoint                                                                                                                                                                               |  |  |
| <b>Gauge port</b>        | G $\frac{1}{4}$ on both sides of the body, screw plugs supplied                                                                                                                                                                                    |  |  |
| <b>Temperature range</b> | 0 °C to 80 °C / 32 °F to 176 °F, NBR, for appropriately conditioned compr. air down to -40 °C / -40 °F                                                                                                                                             |  |  |
| <b>Material</b>          | Body: aluminium die-cast<br>Inner valve: brass and zinc-plated steel                                                                                                                                                                               |  |  |



**G $\frac{1}{4}$  to G $\frac{1}{2}$ , 1300 l/min  
1:1 up to 1:6, 2:1 up to 5:1**

| Dimensions |    |    | K <sub>v</sub> -value | Flow rate           | Connection thread | Pilot pressure | Transmission ratio | Order number |
|------------|----|----|-----------------------|---------------------|-------------------|----------------|--------------------|--------------|
| A          | B  | C  | (m <sup>3</sup> /h)   | m <sup>3</sup> /h*1 | G                 | max. bar       | signal : outlet    |              |
| mm         | mm | mm |                       |                     |                   |                |                    |              |

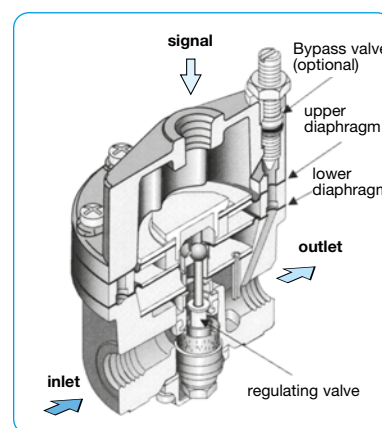
| Booster |     |    | with transmission ratio, supply pressure max. 17 bar, relieving, with constant bleed, pressure range 0...10 bar |    |      |                 |     | R208  |
|---------|-----|----|-----------------------------------------------------------------------------------------------------------------|----|------|-----------------|-----|-------|
| 76      | 98  | 24 | 0.7                                                                                                             | 78 | 1300 | G $\frac{1}{4}$ | 10  | 1 : 1 |
|         |     |    |                                                                                                                 |    |      |                 | 5.0 | 1 : 2 |
|         |     |    |                                                                                                                 |    |      |                 | 3.3 | 1 : 3 |
| 76      | 110 | 24 | 0.7                                                                                                             | 78 | 1300 | G $\frac{1}{4}$ | 2.5 | 1 : 4 |
|         |     |    |                                                                                                                 |    |      |                 | 2.0 | 1 : 5 |
|         |     |    |                                                                                                                 |    |      |                 | 1.7 | 1 : 6 |
| 76      | 98  | 24 | 0.7                                                                                                             | 78 | 1300 | G $\frac{1}{4}$ | 10  | 2 : 1 |
|         |     |    |                                                                                                                 |    |      |                 |     | 3 : 1 |
| 76      | 110 | 24 | 0.7                                                                                                             | 78 | 1300 | G $\frac{1}{4}$ | 10  | 4 : 1 |
|         |     |    |                                                                                                                 |    |      |                 |     | 5 : 1 |



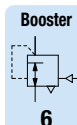
R208

## Special options, add the appropriate letter

|                          |                                            |                         |
|--------------------------|--------------------------------------------|-------------------------|
| G $\frac{3}{8}$          | connection thread                          | R208-03 .               |
| G $\frac{1}{2}$          | connection thread                          | R208-04 .               |
| NPT                      | connection thread                          | R208-0 .N               |
| non-relieving*3          | without relieving function                 | R208-0 .K               |
| tapped exhaust*3         | connection thread G $\frac{1}{4}$          | R208-0 .X12             |
| bypass with restrictor*4 | between control chamber and outlet         | 1:1 only<br>R208-0 .X16 |
| negative bias*3          | preset to -0.24 bar, adjustable by 30 mbar | R208-0 .Y               |
| silicone elastomer       | supply pressure max. 5 bar                 | 1:1 only<br>R208-0 .A   |
| FKM elastomer            |                                            | R208-0 .V               |

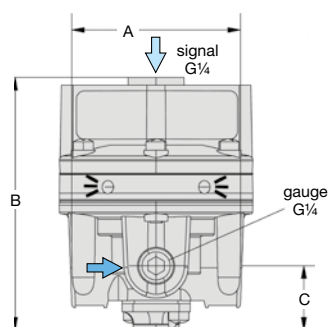


cross section

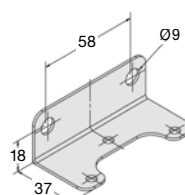


## Accessories, enclosed

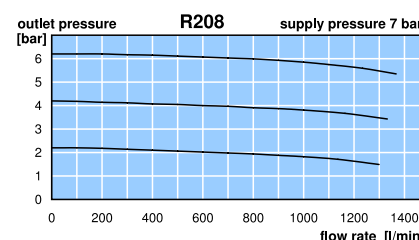
|                  |                                      |              |
|------------------|--------------------------------------|--------------|
| pressure gauge   | Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$ | MA5002-...*2 |
| mounting bracket | made of steel                        | BW00-34      |



R208



BW00-34



\*1 at 7 bar supply pressure and 1.4 bar outlet pressure  
\*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar

\*3 only for 1:1, 1:2, 1:3, 2:1 and 3:1  
\*4 not compatible with option Y

\* Product group

